

APPLICANT(S): KRITCHMAN, Elijah M. et al.
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Listing of Claims

1. (Previously Presented) A method for building three-dimensional objects, said method comprising:
 - dispensing a first material to form at least one three-dimensional object and at least part of a support structure; and
 - dispensing a second material to form at least another part of the support structure and a release layer between said three-dimensional object and said support structure,

wherein said support structure comprises at least one pillar of said first material surrounded by said second material, said pillar not being in contact with said three-dimensional object.
2. (Original) The method of claim 1 wherein at least said first material is a photopolymer and at least the three-dimensional object is formed after being irradiated by electromagnetic radiation.
3. (Previously Presented) The method of claim 1 wherein said second material comprises a photopolymer and the support structure is formed after being irradiated by electromagnetic radiation.
4. (Previously Presented) The method of claim 1 wherein said release layer comprises a photopolymer and is formed after being irradiated by electromagnetic radiation.
- 5.-7. (Cancelled)
8. (Previously Presented) The method of claim 1 comprising separating said support structure and release layer from said three-dimensional object.
9. (Previously Presented) The method according to claim 8 comprising subjecting said support structure and release layer to a solvent causing the support structure and release layer to weaken.
10. (Cancelled).

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11. (Previously Presented) The method according to claim 1, where said support structure further comprises a container formed of said first material, said container being capable of confining said second material.

12. (Cancelled).

13. (Previously Presented) The method according to claim 1, further comprising constructing at least one connecting membrane of said first material attached to at least one said pillar.

14. - 20. (Cancelled)

21. (Previously Presented) A method for building three-dimensional objects, said method comprising:

dispensing a curable build material to form a three-dimensional object;

dispensing a support material to form at least part of a support structure;

and

selectively dispensing the build material to form at least another part of the support structure, said other part comprising at least a container capable of retaining said support material, said support material being at least partly liquid or paste.

22. (Original) The method according to claim 21, wherein said container comprises a base, a plurality of walls and an open top.

23. (Previously Presented) The method according to claim 22, wherein said container comprises at least one nib projecting from at least one of said walls, wherein said at least one nib is capable of restraining the movement of the three-dimensional object.

24. (Previously Presented) The method according to claim 21, wherein said support structure further comprises at least one pillar of said build material, said support material and said at least one pillar being retained within said container.

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25. (Previously Presented) The method according to claim 21, wherin each of said build material, support material and container are dispensed in layers.

26. - 30. (Cancelled)

31. (Previously Presented) The method of claim 1, wherein said support structure comprises a plurality of pillars which are not in contact with said three-dimensional object, said pillars being surrounded by said support material and separated from said three-dimensional object by said release layer.

32. (Previously Presented) The method according to claim 31, further comprising constructing membranes of said first material between said pillars.

33. - 34. (Cancelled)

35. (Previously Presented) The method according to claim 1, wherein said at least one pillar comprises a plurality of layers and wherin a topmost layer of said at least one pillar is adjacent to the release layer being between said three-dimensional object and said support structure.

36. - 60. (Cancelled)

61. (Previously Presented) The method of claim 1, wherin said second material is at least partly liquid or paste.